

GenCore version 5.1.6
 Copyright (c) 1993 - 2003 Compugen Ltd.

run on: July 12, 2003, 19:35:59 ; Search time 233 Seconds
 (without alignments)
 869.871 Million cell updates/sec

MM nucleic - nucleic search, using sw model

title: US-09-910-757-1

perfect score: 90

sequence: 1 ggaggacggcggtggcg cgggtcccgccgggtcg 90

scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

searched: 2115239 seqs, 1125999159 residues

total number of hits satisfying chosen parameters: 4370478

post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

database : N_Geneseq_101002.*

1: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1980.DAT:*

2: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1981.DAT:*

3: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1982.DAT:*

4: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1983.DAT:*

5: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1984.DAT:*

6: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1985.DAT:*

7: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1986.DAT:*

8: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1987.DAT:*

9: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1988.DAT:*

10: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1989.DAT:*

11: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1990.DAT:*

12: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1991.DAT:*

13: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1992.DAT:*

14: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1993.DAT:*

15: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1994.DAT:*

16: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1995.DAT:*

17: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1996.DAT:*

18: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1997.DAT:*

19: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1998.DAT:*

20: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT:*

21: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:*

22: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2001.DAT:*

23: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:*

24: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

result No.	Score	Query Length	DB ID	Description
1	90	100.0	90	AAV72377 Human amyloid precursor protein
2	90	100.0	1721	AA054257 Human amyloid precursor protein
3	90	100.0	3353	AA081234 Sequence of human amyloid precursor protein
4	90	100.0	3353	AA014097 Amyloid precursor protein
5	90	100.0	3353	AA054258 Amyloid precursor protein
6	90	100.0	3353	AA249951 Human beta amyloid precursor protein
7	90	100.0	3354	AAZ322119 Human beta amyloid precursor protein
8	90	100.0	3354	AAZ322119 Human beta amyloid precursor protein
9	90	100.0	3414	AA833274 DNA encoding novel human APP DNA. Human APP DNA.

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

<div

SUMMARIES						
Result No.	Score	Query Match	Length	DB	ID	Description
1	90	100.0	90	20	AAV72377	Human amyloid prec
2	90	100.0	1721	14	AAQ54257	APP-REP 751 amylo
3	90	100.0	3353	9	AAN81234	Sequence of human
4	90	100.0	3353	12	AAQ14097	Amyloid precursor
5	90	100.0	3353	14	AAQ54258	Amyloid precursor
6	90	100.0	3353	14	AAZ249951	Human beta amyloid
7	90	100.0	3354	20	AAZ32299	Human beta amyloid
8	90	100.0	3354	21	AAZ89477	Human APP DNA. Ho
9	90	100.0	3414	23	AAS83774	DNA encoding novel

ALIGNMENTS

RESULT 1
 AAV72377
 ID AAV72377 standard; cDNA; 90 BP.
 XX
 AC AAV72377;
 XX
 DT 02-AUG-1999 (first entry)
 XX
 DE Human amyloid precursor gene translation enhancer element cDNA.
 XX
 KW APP; amyloid precursor protein; translation enhancer element;
 KW treatment; Alzheimer's disease; suppressor; ss.
 KW KW

PF 09-NOV-1998; 98W0-US23873.
 XX
 PR 12-NOV-1997; 97US-0065175.
 XX
 PA (BGHM) BRIGHAM & WOMENS HOS
 XX
 XX
 XX
 PI Rogers J;
 XX
 DR WPI; 1999-347284/29.
 XX
 PT Enhancing translation of the
 PT gene, using a substantially
 PT

PS Claim 1a; Page 24; 27pp; English.
 XX This invention describes the human amyloid precursor protein (APP) gene
 CC non-homologous element which can be operably linked to a
 CC disease. The DNA element is useful for treating Alzheimer's
 CC disease as it enables suppression of APP expression in Patients with
 CC the disease. It can also be used for controlling the production of
 CC recombinant genes in vitro and in vivo.
 XX Sequence 90 BP; 14 A; 30 C; 40 G; 6 T; 0 other;
 Query Match 10.04%; Score 90; DB 20; Length 90;
 Best Local Similarity 10.04%; Pred. No. 2.8e-14;
 Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX Qy 1 GGGAGCCACTCGCTGCCCGCAGGGCTCG 60
 Db 1 GGGAGCCACTCGCTGCCCGCAGGGCTCG 60
 Qy 61 GCAGGCCACTCGCTGCCCGCAGGGCTCG 90
 Db 61 GCAGGCCACTCGCTGCCCGCAGGGCTCG 90

RESULT 2
 AAQ54257 ID AAQ54257 standard; DNA; 1721 BP.
 XX AC AAQ54257;
 XX DT 20-JUN-1994 (first entry)
 XX DE APP-REP 751 amyloid precursor protein/reporter protein.
 XX KW Amyloid precursor protein; APP; beta amyloid protein; BAP;
 KW detection; Alzheimer's disease; Down's syndrome; ds;
 XX OS Homo sapiens.
 XX Key Location/Qualifiers
 FH 196..1674
 FT /*tag= a
 FT /product= APP-REP 751 protein.
 XX PN AU9338358-A.
 XX PD 04-NOV-1993.
 XX PF 03-MAY-1993; 93AU-0038358.
 XX PR 01-MAY-1992; 92US-0877675.
 XX PA (AMCY) AMERICAN CYANAMID CO.
 XX PI Jacobsen JS, vitez MP;
 XX DR WPI; 1993-406194/51.
 DR P-PSDB; AAR45229.
 XX PT New mutant forms of amyloid precursor protein - for detecting
 PT cpds. that modify activity of enzymes involved in precursor
 XX cleavage, also new nucleic acid encoding them
 XX PS Claim 5; Figure 7; 66pp; English.
 XX The mutant form of amyloid precursor protein encoded by this
 CC sequence comprises from the 5' to the 3' end a sequence encoding a
 CC marker and either (1) a sequence encoding the N-terminus of an
 CC amyloid precursor protein (APP) up to, but not including, the
 CC nucleotides encoding the beta amyloid protein (BAP) domain or (2)
 CC the BAP domain. Recombinant polypeptides generated from this
 CC sequence can be used to detect drugs or compounds that
 CC inhibit/augment the activity of proteolytic enzymes which cleave
 XX

CC APP to generate BAP fragments (deposition of which occurs in
 CC patients with Alzheimer's disease and Down's syndrome).
 XX Sequence 1721 BP; 441 A; 408 C; 534 G; 338 T; 0 other;
 Query Match 100.0%; Score 90; DB 14; Length 1721;
 Best Local Similarity 100.0%; Pred. No. 2.5e-14;
 Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX Qy 1 GGGAGCCGGGGCTGGCGCGGGATCCACTCCACA 60
 Db 104 GGGAGCCGGGGCTGGCGGGATCCACTCCACA 163
 Qy 61 GCAGGCCACTCGCTGCCCGCAGGGCTCG 90
 Db 164 GCAGGCCACTCGCTGCCCGCAGGGCTCG 193
 RESULT 3
 AAN81234 ID AAN81234 standard; cDNA; 3353 BP.
 XX AC AAN81234;
 XX DT 17-NOV-1990 (first entry)
 XX DE Sequence of human amyloid plaque core (APC) precursor protein.
 XX KW Alzheimer's disease; diagnosis; probe; hybridisation; ss.
 XX OS Homo sapiens.
 XX Key Location/Qualifiers
 FH 147..2234
 FT /*tag= a
 FT misc_feature 1962..1981
 FT /*tag= b
 FT /*note= "used as basis for probe"
 FT polyA_signal 3080..3085
 FT /*tag= c
 FT polyA_signal 3089..3095
 FT /*tag= d
 FT polyA_signal 3338..3343
 FT /*tag= e
 FT polyA_site 3353..3353
 FT /*tag= f
 XX EP276723-A.
 XX PD 03-AUG-1988.
 XX PN EP276723-A.
 XX PR 19-JAN-1988; 88EP-0100647.
 XX PR 30-JAN-1987; 87DE-3702789.
 XX PA (FARB) BAYER AG.
 XX PI Muller-Hill B, Kang J, Lemaire HG, Unterbeck A;
 XX DR WPI; 1988-214149/31.
 DR P-PSDB; AAR81692.
 XX PT New DNA sequence for amyloid plaque core precursor protein
 PT useful for diagnosing Alzheimer's disease
 XX Claim 1; Fig 1a-c; 7pp; German.
 PS XX A cDNA library was constructed in E.coli HB101 using poly-A tailed mRNA
 XX from foetal human cerebral cortex and screened with a probe corresp. to
 CC AAs 10-16 of APC. The DNA sequence in AAN81234 and its functional
 CC equivalents, encoding the precursor protein of the amyloid plaque core
 CC (APC) polypeptide are new. Also new are:
 CC (1) fragments of this sequence;
 CC (2) fragments of this sequence;

(2) APC precursor protein or its functional equivalents and fragments;
 CC (3) antibodies directed against this protein (or fragments); and
 CC (4) oligo probes derived from this DNA sequence.
 CC A pref. fragment of the sequence extends from approx. base 600-900; it
 CC includes an unusually high proportion of acidic AAs plus a sequence of
 CC 7 Thr residues (bases 819-840), making it a very specific probe for
 CC hybridisation testing. The pref. antigenic sequence for raising Abs
 CC contains AAs 200-250 of the precursor polypeptide. The DNA sequence and
 CC fragments and antibodies are useful for diagnosis of Alzheimer's
 CC disease (even before clinical symptoms develop).

XX Sequence 3353 BP; 922 A; 745 C; 867 G; 819 T; 0 other;
 SQ Query Match 100.0%; Score 90; DB 9; Length 3353;
 Best Local Similarity 100.0%; Pred. No. 2.5e-14;
 Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX Qy 1 GGGAGACGGGGCACTGGCGGGAGAGCAAGGACGGGGATCCCACTGGCACA 60
 Db 55 GGGAGACGGGGCACTGGCGGGAGAGCAAGGACGGGGATCCCACTGGCACA 114
 RESULT 5
 AAQ54258 ID AAQ54258 standard; DNA: 3353 BP.
 XX Qy 61 GCAAGCGCACTCGCGGGAGAGCAAGGACGGGGATCCCACTGGCACA 60
 Db 115 GCAAGCGCACTCGCGGGAGAGCAAGGACGGGGATCCCACTGGCACA 144
 DT 20-JUN-1994 (first entry)
 XX DE Amyloid precursor protein (APP 770) coding sequence.
 XX KW Amyloid precursor protein; APP; beta amyloid protein; BAP;
 KW detection; Alzheimer's disease; Down's syndrome; ss.
 XX AC AAQ54258;
 XX OS Homo sapiens.
 XX PN AAQ14097
 DE Amyloid precursor protein coding sequence cloned in PFC4.
 XX AC AAQ14097;
 KW APP-695; minigene; senile dementia; ss.
 DT 06-JAN-1992 (first entry)
 XX DE Amyloid precursor protein coding sequence cloned in PFC4.
 XX AC AAQ14097;
 KW APP-695; minigene; senile dementia; ss.
 OS Homo sapiens.
 XX FH Location/Qualifiers
 Key 147..2234
 CDS /*tag-
 FT /product= APP-695
 XX PN EP451700-A.
 XX PD 16-OCT-1991.
 XX PR 04-APR-1991; 91EP-0105332.
 XX PR 20-FEB-1991; 91US-0656248.
 XX PR 10-APR-1990; 90US-0507705.
 XX PA (MILES INC.
 PI Virak DO, Bayney R, Ramabhadran TV, Unterbeck A, Rae P;
 PI Scangos G;
 XX DR 1991-304748/42.
 DR P-PSDB; AAF14046.
 XX PT Recombinant minigene expressing amyloid precursor protein - in
 PT cell and tissue specific manner in transgenic mice, as models for
 PT Alzheimer's disease
 XX Example 3: Page 58 and f 1; 135pp; English.
 XX Plasmid PFC4 was isolated from a cDNA library prepared from polyA
 CC RNA from brain cortex of a 5-month old aborted human foetus. Three
 CC probes were used for screening. The sequence of PFC4 corresponds to
 CC a full-length APP-695 coding sequence and is identical to the
 CC nucleotide sequence obtained as clone 9-110 by Kang et al., 1987.

Qy 61 GCAGCGCACTCGTGCCTGGGGAGGGTCG 90
 ||||| ||||| ||||| ||||| ||||| |||||
 Db 115 GAGCGCACTCGTGCCTGGGGAGGGTCG 144
 ||||| ||||| ||||| ||||| ||||| |||||

RESULT 6

AAZ49951 standard; cDNA: 3353 BP.

XX
 AC
 AAZ49951;
 XX
 DT 25-APR-2000 (first entry)
 XX Human beta amyloid precursor protein cDNA.
 XX
 KW Beta-amylose precursor protein; beta-APP; neuronal protein;
 KW human lnn-protease like protein; HS10N; diagnosis; treatment;
 KW neurodegenerative disorder; Alzheimer's disease; dementia of trisomy 21;
 KW Parkinson's disease; amyotrophic lateral sclerosis; cardiomypathy;
 KW diabetes; hearing loss; male infertility; gene therapy;
 KW mitochondrial DNA mutation disorder; ss.
 XX
 OS Homo sapiens.
 XX
 Key FH Location/Qualifiers
 CDS 147..2234
 FT /*tag= a
 FT /product= "Beta amyloid precursor protein"
 FT 1935..2060
 FT /*tag= b
 FT /label= Beta_A4
 FT /note= "Bait sequence that interacts with prey
 protein HS10N"
 FT
 XX WO200002911-A2.
 XX 20-JAN-2000.
 PD 08-JUL-1999; 99WO-US15592.
 PR 10-JUL-1998; 98US-0113348.
 PA (CURA-) CURAGEN CORP.
 XX
 PI Nandabalan K, Yang M, Schulz VP;
 XX
 DR WPI: 2000-171130/15.
 DR P-PSDB; AAY44705.
 XX
 PT Screening for interactions between human beta amyloid precursor protein (beta-APP)
 PT and human lnn-protease like protein, useful for treating
 PT neurodegenerative disease -
 XX
 Example 1; Fig 1; 69PP; English.
 XX
 PT The present sequence encodes beta-amylose precursor protein (beta-APP),
 CC a neuronal protein. Complex formed by the interaction of beta-APP and
 CC the human lnn-protease like protein (HS10N) may serve as a marker for
 CC specific disease states that involve the disruption of physiological
 CC processes in which beta-APP and HS10N are known to be involved. Methods
 CC of screening for these complexes are used in diagnosis and treatment of
 CC diseases like neurodegenerative disorders such as Alzheimer's disease,
 CC dementia of trisomy 21, Parkinson's disease, amyotrophic lateral
 CC sclerosis; cardiomypathy; diabetes; hearing loss; male infertility; and
 CC disorders associated with mitochondrial DNA mutations. The nucleic acid
 CC sequence may be used for gene therapy.
 XX
 Sequence 3353 BP; 922 A; 745 C; 867 G; 819 T; 0 other;
 SQ

Qy 1 GGGAGACGGGGGGGGGGGGGGAGAGGAAGGGACGGGGGGATCCACTCGCACA 60
 ||||| ||||| ||||| ||||| ||||| |||||
 Db 55 GGGAGACGGGGGGGGGGGGGGAGAGGAAGGGACGGGGGGATCCACTCGCACA 114
 ||||| ||||| ||||| ||||| ||||| |||||
 Qy 61 GCAGCGCACTCGTGCCTGGGGAGGGTCG 90
 ||||| ||||| ||||| ||||| |||||
 Db 115 GCAGCGCACTCGTGCCTGGGGAGGGTCG 144
 ||||| ||||| ||||| |||||

RESULT 7

AAZ32219 standard; cDNA: 3354 BP.

XX
 AC
 AAZ32219;
 XX
 DT 13-JAN-2000 (first entry)
 XX Human beta amyloid precursor protein encoding cDNA.
 DE
 KW Human; beta amyloid precursor protein; APP; beta secretase inhibition;
 KW alpha secretase; neurological disorder; Alzheimer's disease;
 KW Downs syndrome; mutation; ss.
 XX
 OS Homo sapiens.
 XX
 Key FH Location/Qualifiers
 CDS 148..2235
 FT /*tag= a
 FT /product= "beta amyloid precursor protein"
 FT
 XX WO9951752-A1.
 PN
 XX 14-OCT-1999.
 PD
 XX 31-MAR-1999; 99WO-JP01701.
 PR
 XX 31-MAR-1998; 98JP-0101821.
 PA
 XX (CHUS) CHUGAI SEIYAKU KK.
 PI
 XX Ozawa K, Ikeda S, Tabira T;
 XX DR WPI; 1999-620208/53.
 DR P-PSDB; AAY9690.
 XX
 PT A cell line which produces beta amyloid precursor protein, used in the
 PT investigation of neurological disorders such as Alzheimer's disease -
 XX
 Disclosure; Page 35-41; 70pp; Japanese.
 XX
 PT The present invention describes a cell line which produces beta amyloid
 CC precursor protein (APP) and expresses alpha secretase activity but
 CC expresses beta secretase activity only under an external stimulus.
 CC Also described is cloning method for DNA encoding beta secretase,
 CC comprising: (1) inserting a DNA library into the cell line, expressing
 CC the inserted DNA, and selecting cells expressing beta secretase then
 CC isolating the beta secretase DNA from them, (2) isolating nucleic
 CC acid from the cell line with or without external stimulation and
 CC performing subtractive cloning to identify DNA expressed only under
 CC stimulation. Products from the present invention may be used in the
 CC investigation of neurological disorders such as Alzheimer's disease
 CC and Downs syndrome and in particular the association of mutations of
 CC the beta APP with them. The present sequence encodes human beta APP.
 XX
 Sequence 3354 BP; 922 A; 745 C; 867 G; 819 T; 0 other;
 Query Match 100.0%; Score 90; DB 20; Length 3354;
 Best Local Similarity 100.0%; Pred. No. 2.5e-14; Indels 0; Gaps 0;
 Matches 90; Conservative 0; Mismatches 0; Gaps 0;

Qy 1 GGGAGACGGGGGGGGGGGGGGAGAGGAAGGGACGGGGGGATCCACTCGCACA 60
 ||||| ||||| ||||| ||||| ||||| |||||

Db 56 GGGAGACGGCCGGGGTGGCGGGAGGGCAAGGACGGGGATCCACTCGCACA 115
 Qy 61 GCAAGCCACTGGTGGCCGGCAGGGTGG 90
 |||||||
 Db 116 GCAAGCCACTGGTGGCCGGCAGGGTGG 145

RESULT 8
 AAZ89477 standard; DNA; 3354 BP.
 ID AAZ89477;
 AC AAZ89477;
 XX APP; amyloid precursor protein; gamma-secretase; neuroprotective;
 XX nootropic; transgenic; Alzheimer's disease; Down's syndrome; human; ds.
 DT 22-JUN-2000 (first entry)
 DE Human APP DNA.
 KW APP; amyloid precursor protein; gamma-secretase; neuroprotective;
 KW nootropic; transgenic; Alzheimer's disease; Down's syndrome; human; ds.
 OS Homo sapiens.
 XX DE19856261-C1.
 PN DE19856261-C1.
 XX 30-MAR-2000.
 PD 07-DEC-1998; 98DE-1056261.
 PR 07-DEC-1998; 98DE-1056261.
 PA (HMR) HOECHST MARION ROUSSEL DEUT GMBH.
 PI Peterus G;
 XX WPI; 2000-258119/23.

PT Detection of gamma-secretase by detection of A-beta peptide useful for
 PT determining gamma-secretase activity and for identifying inhibitors -
 XX Disclosure: Page 9; 16pp; German.
 XX This invention describes a novel method for the detection of human
 CC gamma-secretase by detection of a partial protein formed by cleavage of
 CC a fusion protein encoded by a transgene containing a first nucleotide
 CC sequence which encodes a protein comprising the amino acid sequence (A)
 CC and a second nucleotide sequence which encodes a signal peptide. The
 CC products of the invention have neuroprotective and nootropic activity.
 CC The method is used to detect activity of gamma-secretase. The transgene
 CC and/or vectors are useful for the production of a transgenic cell or
 CC C. elegans. Transgenic C. elegans is useful in a method for the
 CC determination of gamma-secretase activity. The transgenic C. elegans is
 CC also useful in a method to identify inhibitors of the gamma-secretase
 CC activity. The methods and transgenes are useful in research of
 CC Alzheimer's disease. Inhibitors of gamma-secretase are useful in
 CC control/treatment of Alzheimer's and possibly Down's syndrome. This
 CC sequence encodes the human amyloid precursor protein (APP) which is
 CC described in the method of the invention.
 XX sequence 3354 BP; 922 A; 745 C; 868 G; 819 T; 0 other;

Query Match 100.0%; Score 90; DB 21; Length 3354;
 Best Local Similarity 100.0%; Pred. No. 2.5e-14;
 Matches 90; Conservative 0; Mismatches 0; Gaps 0;
 Qy 1 GGGAGACGGCCGGGGTGGCGGGAGGGCAAGGACGGGGATCCACTCGCACA 60
 |||||||
 Db 56 GGGAGACGGCCGGGGTGGCGGGAGGGCAAGGACGGGGATCCACTCGCACA 115
 |||||||
 Qy 61 GGGAGACGGCCGGGGTGGCGGGAGGGCAAGGACGGGGATCCACTCGCACA 90
 |||||||
 Db 116 GGGAGACGGCCGGGGTGGCGGGAGGGCAAGGACGGGGATCCACTCGCACA 145

RESULT 9
 AAS83274
 ID AAS83274 standard; cDNA; 3414 BP.
 XX
 AC AAS83274;
 XX 13-FEB-2002 (first entry)
 DE DNA encoding novel human diagnostic protein #19078.
 XX Human; chromosome mapping; gene mapping; gene therapy; forensic;
 KW food supplement; medical imaging; diagnostic; genetic disorder; ss.
 XX
 AC Homo sapiens.
 XX
 PN WO200175067-A2.
 XX
 PD 11-OCT-2001.
 XX
 PR 30-MAR-2001; 2001WO-US08631.
 XX
 PR 31-MAR-2000; 2000US-0540217.
 PR 23-AUG-2000; 2000US-0649167.
 XX
 PA (HYSEQ INC.
 XX
 PI Drmanac RT, Liu C, Tang YT;
 XX
 DR WPI; 2001-639362/73.
 DR P-PSDB: ABG19087.
 XX
 PT New isolated polynucleotide and encoded polypeptides, useful in
 PT diagnostics, forensics gene mapping, identification of mutations
 PT responsible for genetic disorders or other traits and to assess
 PT biodiversity -
 XX
 PS Claim 1; SEQ ID NO 19078; 103pp; English.
 XX
 CC The invention relates to isolated polynucleotide (I) and
 CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
 CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
 CC and gene mapping, and in recombinant production of (II). The
 CC polynucleotides are also used in diagnostics as expressed sequence tags
 CC for identifying expressed genes. (I) is useful in gene therapy techniques
 CC to restore normal activity of (II) or to treat disease states involving
 CC (II). (II) is useful for generating antibodies against it, detecting or
 CC quantitating a polypeptide in tissue, as molecular weight markers and as
 CC a food supplement. (II) and its binding partners are useful in medical
 CC imaging of sites expressing (II). (I) and (II) are useful for treating
 CC disorders involving aberrant protein expression or biological activity.
 CC The polypeptide and polynucleotide sequences have applications in
 CC diagnostics, forensics, gene mapping, identification of mutations
 CC responsible for genetic disorders or other traits to assess biodiversity
 CC and to produce other types of data and products dependent on DNA and
 CC amino acid sequences. AAS83274 represent novel human
 CC diagnostic coding sequences of the invention.
 CC Note: The sequence data for this patent did not appear in the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp://wipo.int/pub/published_pct_sequences.
 XX
 Sequence 3414 BP; 915 A; 806 C; 940 G; 753 T; 0 other;
 SQ
 Query Match 100.0%; Score 90; DB 23; Length 3414;
 Best Local Similarity 100.0%; Pred. No. 2.5e-14;
 Matches 90; Conservative 0; Mismatches 0; Gaps 0;
 Qy 1 GGGAGACGGCCGGGGTGGCGGGAGGGCAAGGACGGGGATCCACTCGCACA 60
 |||||||
 Db 608 GGGAGACGGCCGGGGTGGCGGGAGGGCAAGGACGGGGATCCACTCGCACA 67
 |||||||
 Qy 61 GCAAGCGCACTCGGTGGCCGGCAGGGTGC 90
 |||||||
 Db 668 GCAAGCGCACTCGGTGGCCGGCAGGGTGC 697

RESULT 10

AAS83273
ID AAS83273 standard; cDNA; 3585 BP.
XX
AC AAS83273;
XX
DT 13-FEB-2002 (first entry)
XX
DE DNA encoding novel human diagnostic protein #19077.
XX
KW Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX
Homo sapiens.
OS XX
PN WO200175067-A2.
XX
PD 11-OCT-2001.
XX
PF 30-MAR-2001; 2001WO-US08631.
XX
PR 31-MAR-2000; 2000US-0540217.
PR 23-AUG-2000; 2000US-0649167.
XX
PA (HYSEQ -) HYSEQ INC.
XX
PI Drmanac RT, Liu C, Tang YT;
XX
DR WPI; 2001-639362/73.
DR P-PSDB; ABG19086.
XX
PT New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity
XX
PS Claim 1: SEQ ID No 19077; 103PP; English.
XX
The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. AAS84197 AAS94564 represent novel human diagnostic coding sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at [ftp://wipo.int/pub/published_pct_sequences](http://wipo.int/pub/published_pct_sequences).
XX
Sequence 3585 BP; 976 A; 806 C; 932 G; 871 T; 0 other;
Query Match 100.0%; Score 90; DB 23; Length 3585;
Best Local Similarity 100.0%; Pred. No. 2.5e-14;
Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GGGAGACGGCGCGTGGCGGGCAGAGCAAGGACGGGGGATCCACTCGCACA 60
Db 56 GGGAGACGGCGCGTGGCGGGCAGAGCAAGGACGGGGATCCACTCGCACA 115
Qy 61 GCAGGCCACTCGTGGCCGGCGAGGGTCG 90
Db 140 GCAGGCCACTCGTGGCCGGCGAGGGTCG 169

Db 116 GCAGCGACTCGTGGCCGGCGAGGGTCG 145

RESULT 11

ABV29298
ID ABV29298 standard; cDNA; 3621 BP.
XX
AC ABV29298;
XX
DT 16-SEP-2002 (first entry)
XX
DE Human prostate expression marker cDNA 29289.
XX
KW Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker; gene; ss.
XX
Homo sapiens.
OS XX
PN WO200160850-A2.
XX
PD 23-AUG-2001.
XX
PR 20-FEB-2001; 2001WO-US05171.
XX
PR 17-FEB-2000; 2000US-183319P.
PR 16-MAR-2000; 2000US-18986P.
PR 25-MAY-2000; 2000US-307454P.
PR 09-JUN-2000; 2000US-211314P.
PR 18-JUL-2000; 2000US-219007P.
PR 13-DEC-2000; 2000US-555281P.
XX
(MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
PA XX
PI Schlegel R, Endege WO, Monahan JE;
XX
WPI; 2001-662795/76.
XX
PT Novel isolated nucleic acid molecule associated with cancerous state of prostate cells and correlating with presence of prostate cancer, useful for detecting presence of prostate cancer, stage of prostate cancer
PT
PT
XX
PS Claim 1: Page 6261; 11750PP; English.
XX
The invention relates to an isolated nucleic acid molecule (I) comprising a nucleotide sequence given in Tables 1-9 (ABV0010-ABV62213) of the specification or its complement. (I) is useful for:
CC (a) assessing whether a patient is afflicted with prostate cancer;
CC (b) monitoring the progression of prostate cancer in a patient;
CC (c) assessing the efficacy of a test compound to inhibit prostate cancer in a patient;
CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer in a patient;
CC (e) selecting a composition for inhibiting prostate cancer in a patient;
CC (f) assessing the prostate cell carcinogenic potential of a compound;
CC (g) determining whether prostate cancer has metastasized in a patient;
CC (h) assessing the aggressiveness or indolence of prostate cancer in a patient;
CC (I) is also useful as a pharmacodynamic or pharmacogenomic marker.
XX
Sequence 3621 BP; 993 A; 815 C; 941 G; 872 T; 0 other;
SQ Query Match 100.0%; Score 90; DB 23; Length 3621;
Best Local Similarity 100.0%; Pred. No. 2.5e-14;
Matches 90; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GGGAGACGGCGCGTGGCGGGCAGAGCAAGGACGGGGATCCACTCGCACA 60
Db 80 GGGAGACGGCGCGTGGCGGGCAGAGCAAGGACGGGGATCCACTCGCACA 139
Qy 61 GCAGGCCACTCGTGGCCGGCGAGGGTCG 90
Db 140 GCAGGCCACTCGTGGCCGGCGAGGGTCG 169

```
Query Match      100.0%;  Score 90;  DB 18;  Length 8591;
Best Local Similarity 100.0%;  Pred. No. 2.4e-14;
Matches 90;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;
Db      2301  GGGAGACGGCGGCGGGCGAGGAAAGGACGCCAAGGAATCCCACTCGGACA 60
Qy      1  GGGAGACGGCGGCGGGCGAGGAAAGGACGCCAAGGAATCCCACTCGGACA 60
Db      2361  GGGAGACGGCGGCGGGCGGGCGAGGAAAGGACGCCAAGGAATCCCACTCGGACA 2360
Qy      61  CGAGCGCACTCGTGCCTGCCAGGGTCG 90
Db      2361  CGAGCGCACTCGTGCCTGCCAGGGTCG 2390
```

Search completed: July 12, 2003, 21:15:36
Job time : 236 secs